Performance Data Sheet

AWA9512ZXN

General Information

Model	AWA9512ZXN	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	11800	10400	8950	7510	6070	4640	3200
	Watts	1570	1550	1530	1500	1480	1450	1420
	Amps	6.92	6.82	6.72	6.62	6.51	6.40	6.28
	Lb/h	207	190	173	156	139	122	105
5	Btu/h	13800	12100	10500	8940	7340	5740	4150
	Watts	1670	1670	1660	1640	1630	1620	1600
	Amps	7.36	7.32	7.28	7.24	7.18	7.13	7.07
	Lb/h	242	224	206	189	171	153	135
10	Btu/h	15800	14000	12200	10400	8680	6920	5160
	Watts	1770	1770	1770	1780	1780	1780	1780
	Amps	7.75	7.77	7.79	7.80	7.81	7.81	7.81
	Lb/h	279	261	242	223	204	186	167
15	Btu/h	17800	15900	14000	12000	10100	8170	6250
	Watts	1850	1860	1880	1900	1910	1920	1930
	Amps	8.09	8.17	8.25	8.32	8.38	8.44	8.50
	Lb/h	320	300	280	260	240	220	201
20	Btu/h	20000	17900	15800	13700	11600	9510	7420
	Watts	1910	1940	1970	2000	2030	2060	2080
	Amps	8.38	8.51	8.65	8.78	8.90	9.02	9.13
	Lb/h	364	342	321	300	279	258	237
25	Btu/h	22300	20000	17700	15500	13200	10900	8670
	Watts	1970	2010	2050	2100	2140	2180	2220
	Amps	8.60	8.80	8.99	9.18	9.36	9.54	9.71
	Lb/h	411	388	366	343	321	298	276
30	Btu/h	24600	22200	19700	17300	14900	12400	10000
	Watts	2010	2070	2120	2180	2230	2290	2340
	Amps	8.77	9.02	9.28	9.52	9.77	10.0	10.2
	Lb/h	464	439	415	391	367	343	319

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.339624E+04	1.737537E+03	7.639872E+00	3.414066E+02
C2	6.390929E+02	1.133138E+00	2.191806E-03	8.385198E+00

C3	-1.443779E+02	-2.155299E+00	-9.297759E-03	-1.681680E+00
C4	1.677039E+00	-2.430352E-01	-1.051534E-03	5.832555E-02
C5	-3.299977E+00	2.599725E-01	1.143765E-03	-2.159402E-02
C6	-5.501885E-03	3.059596E-03	1.212539E-05	2.100809E-05
C7	7.535324E-03	-1.714116E-04	-2.847253E-06	7.351902E-04
C8	-3.046873E-03	1.194065E-05	8.677607E-07	-2.847154E-04
C9	2.804472E-04	2.076893E-05	5.967518E-09	2.742355E-05
C10	4.676351E-05	-2.750317E-05	-1.085638E-07	-3.641046E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWA9512ZXN

General Information

Model	AWA9512ZXN	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	21300	19200	17200	15100	13000	10800	8610
	Watts	1870	1900	1930	1960	1980	2000	2030
	Amps	8.25	8.39	8.53	8.66	8.79	8.90	8.99
	Lb/h	346	328	309	290	271	250	228
25	Btu/h	24100	21800	19500	17200	14900	12600	10200
	Watts	1920	1960	2010	2050	2090	2130	2170
	Amps	8.42	8.64	8.86	9.08	9.28	9.48	9.66
	Lb/h	393	373	353	333	313	293	272
30	Btu/h	27100	24500	21900	19300	16800	14300	11800
	Watts	1950	2020	2080	2140	2200	2260	2310
	Amps	8.56	8.86	9.16	9.45	9.74	10.0	10.3
	Lb/h	443	421	400	379	358	337	316
35	Btu/h	30300	27300	24400	21600	18800	16000	13200
	Watts	1980	2060	2140	2220	2300	2380	2450
	Amps	8.67	9.04	9.42	9.79	10.2	10.5	10.9
	Lb/h	499	474	451	428	405	383	361
40	Btu/h	33800	30400	27200	24000	20800	17800	14700
	Watts	1990	2100	2200	2300	2400	2490	2580
	Amps	8.75	9.20	9.65	10.1	10.5	11.0	11.4
	Lb/h	561	533	506	481	456	432	408
45	Btu/h	37700	33900	30200	26600	23100	19700	16400
	Watts	2000	2120	2250	2370	2480	2600	2710
	Amps	8.80	9.32	9.85	10.4	10.9	11.4	11.9
	Lb/h	631	599	568	540	512	485	460
50	Btu/h	42000	37700	33600	29600	25700	21900	18200
	Watts	2000	2140	2280	2420	2560	2690	2830
	Amps	8.83	9.42	10.0	10.6	11.2	11.8	12.4
	Lb/h	709	672	638	605	574	544	515

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.907788E+04	1.970078E+03	8.508823E+00	2.991261E+02
C2	8.900823E+02	-1.465220E+01	-6.142309E-02	8.196793E+00

C3	-9.898973E+01	-4.160054E+00	-1.622635E-02	-1.238484E+00
C4	2.782272E+00	-1.191899E-01	-5.834365E-04	8.391246E-02
C5	-5.475762E+00	3.532019E-01	1.531120E-03	-3.235719E-02
C6	-3.034887E-02	4.662428E-03	1.813042E-05	-1.718202E-05
C7	9.595119E-02	-1.492492E-03	2.997933E-06	1.432889E-03
C8	-8.683842E-02	1.115548E-03	-3.787248E-06	-1.321925E-03
C9	2.434794E-02	-2.499087E-04	1.348254E-06	3.773333E-04
C10	-1.839311E-03	-1.986165E-05	-2.781577E-07	-3.254682E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature